Test Report

Date of issue: 19.11.2015

Type: M3JM 280SMB 6
Product Code: 3GJM283220-_DL
Protection type: Ex d I Mb
Cert. No.: LCIE 11 ATEX 3089 X /
IECEx LCI 04.0006X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	45	991	47,8	0,84	S1
Insul.cl.F	400	D	50	45	991	82,0	0,84	S1
IP66	415	D	50	45	990	79,7	0,83	S1
	440	D	60	45	1191	74,4	0,84	S1
	460	D	60	45	1192	72,0	0,83	S1

Eff class IE3

50Hz : IE3 - 93.7(100%) - 94.0(75%) - 93.5(50%)
60Hz : IE3 - 94.5%(100%)

Resistance
Line Ambient: 25 °C

U_1 - V_1	0,07804	Ω
U_1 - W_1	0,07802	Ω
V_1 - W_1	0,07801	Ω

Insulation resistance at 39 °C
26000 MΩ 1000 V

Overload
Torque 160% 15s

High-voltage test winding 2400 V 60 s

Test	Torque [Nm]	Line U[V]		f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No load test		400,7	D	50	28,2	0,96		1000	0,05	
Locked rotor test		77,4	D	50	82,0	3,33		0	0,30	
Thermal test (100% load)	433,7	400,2	D	50	81,9	47,6	45,0	992	0,84	94,5
Partial load points:										
~75% load	325,3	400,2	D	50	63,8	35,6	33,8	995	0,81	94,8
~50% load	216,7	400,1	D	50	47,6	23,8	22,5	998	0,72	94,4
~25% load	108,3	400,0	D	50	34,5	12,3	11,3	1000	0,51	91,5

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		42	1
Frame :		25	2
Bearing D-end :		29	2
Rotor :		49	3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GF13172074, on date 2013-08-26
which is identical in design with the above.

Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1.
PLL determined from residual loss.

On behalf of customer

On behalf of manufacturer

Tested by ABB Oy, Motors and Generators, Vaasa, Finland

Telephone +358 10 2211
Telefax +358 10 22 47372

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